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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,144	12/31/2003	Allan Robert Knoll	1014-SP230	7932
34456	7590	10/18/2006	EXAMINER	
LARSON NEWMAN ABEL POLANSKY & WHITE, LLP			NORRIS, JEREMY C	
5914 WEST COURTYARD DRIVE			ART UNIT	PAPER NUMBER
SUITE 200				
AUSTIN, TX 78730			2841	

DATE MAILED: 10/18/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/750,144	KNOLL ET AL.
	Examiner	Art Unit
	Jeremy C. Norris	2841

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(e). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 10 July 2006.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1,3-7,9-12 and 14-32 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1,3-7,9-12 and 14-32 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 14 September 2005 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application
 6) Other: _____.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12 June 2006 has been entered.

Claim Objections

Applicant is advised that should claim 14 be found allowable, claim 19 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1, 3-7, 9-12, and 14-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 5,077,266 (Takagi) in view of US 2004/0266628 A1 (Lee). Takagi discloses, referring to figure 6, a superconducting article, comprising; a substrate (70); and a layer of superconductor material overlying the substrate, said layer of superconductor material overlying the substrate, said layer comprising a plurality of superconductor strips (71) and at least one superconductive bridge (72) coplanar with the plurality of superconductive strips, wherein (i) the plurality of superconductor strips extend along a longitudinal direction, the superconductor strips comprising first and

second superconductor strips extending parallel to each other and being spaced apart from each other by a gap extending perpendicular to the longitudinal direction; and the at least one superconductive bridge electrically coupling at least the first and second superconductor strips with each other and spanning the gap. Takagi does not specifically state that the substrate has a dimension ratio of not less than about 10 [claim 1]. However, it is well known in the art to form substrates under superconducting strips with a dimension ratio of not less than about 10 as evidenced by Lee ([0030]). Therefore, it would have been obvious to one having ordinary skill in the art at the time of invention to form the substrate has a dimension ratio of not less than about 10 (or alternately 100 [claim 26] or 1000 [claim 27]). The motivation for doing so would have been to properly support the superconductor strips. Additionally, the modified invention of Takagi teaches wherein the superconductor strips are spaced apart from each other by an average gap width of at least 1 μm (col. 8, lines 35-40) [claim 3], wherein said average gap width is not less than about 5 μm (col. 8, lines 35-40) [claim 4], wherein the superconductor strips are spaced apart from each other by a substantially constant gap (col. 8, lines 35-40) [claim 5], wherein the first and second superconductor strips have an average width of at least 5 μm (col. 8, lines 35-40) [claim 6], wherein the first and second superconductor strips have substantially the same width (col. 8, lines 35-40) [claim 7], wherein the at least one superconductive bridge comprises a plurality of superconductive bridges (72) [claim 12], wherein the conductive bridges are spaced apart generally periodically along a length of the substrate [claims 14, 19], wherein the article comprises a minimum of one bridge per 100m of substrate (col. 8, lines 30-55)

[claim 15], wherein the article comprises a minimum of one bridge per 50m of substrate (col. 8, lines 30-55) [claim 16] wherein the article comprises a minimum of one bridge per 10m of substrate (col. 8, lines 30-55) [claim 17] wherein the article comprises a minimum of one bridge per 1m of substrate (col. 8, lines 30-55) [claim 18] further comprising at least one conductive shunt layer overlying the superconductor layer (col. 8, lines 30-55) [claim 20], further comprising at least a biaxially textured layer, over which the superconductor layer is provided (col. 8, lines 30-45) [claim 21], wherein the biaxially textured layer comprises an IBAD layer (col. 8, lines 30-50) [claim 22], wherein the layer of superconductor material is comprised of a high temperature superconductor (col. 8, lines 1-15) [claim 23], wherein the high temperature superconductor comprises $REBa_2Cu_3O_{7-x}$, wherein RE is a rare earth element (col. 8, lines 1-15) [claim 24], wherein the superconductor material comprises $YBa_2Cu_3O_7$ (col. 8, lines 1-15) [claim 25], wherein the article is in the form of a superconducting tape [claim 28], wherein the substrate, the superconductive strips, and the conductive bridges form a superconductive tape, the article comprising a coil having a plurality of superconductive tapes (col. 8, lines 30-55) [claim 29], wherein the article is a power transformer, the power transformer comprising at least a primary winding and a secondary winding, wherein at least one of the primary winding and secondary winding comprises a wound coil of superconductive tape, the superconductive tape comprising said substrate, said superconductor strips, and said conductive bridges (col. 8, lines 30-55) [claim 30], wherein the article is a rotating machine, the rotating machine comprising at least one winding, wherein the at least one winding comprises a superconductive tape formed of

said substrate, said superconductor strips, and said conductive bridges (col. 8, lines 30-55) [claim 31], wherein the rotating machine is a power generator or motor (col. 8, lines 30-55) [claim 32].

Regarding claims 9-11, these claims cite process limitations in a device claim and thus are only considered to the extent to which the process impacts the structure of the device. Moreover, it is well settled that even though product by process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product by process claim is the same as or obvious from a product of the prior art, the claims unpatentable even though the prior product was made by a different process. *In re Thorpe*, 77 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir 1985).

Response to Arguments

Applicant's arguments with respect to claims 1, 3-7, 9-12, and 14-32 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeremy C. Norris whose telephone number is 571-272-1932. The examiner can normally be reached on Monday - Friday, 9:30 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on 571-272-1984. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



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JCSN